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Nevspaper and periodicals as indicated.

SOVIETS PRODUCE NEW HIGH-FREQUENCY ELECTRIC TOOLS

EQUIPMENT AVAILABLE IN ANY QUANTITY -- Minsk, Sovetskaya Belorussiya, 4 Mar 51

The Minsk Office of the Main Administration for the Mechanization of Construction, Ministry of Construction- and Road-Machine Building, now has available for construction enterprises and road builders a number of different types of construction and road machinery, including metal- and wood-working tools. There is a large assortment of high-frequency, 36-volt tools, which work off current converters. These tools are safe, durable, and efficient. Electric drills, cutters, nut tighteners, cleaning machines, hammers, and current converters are available.

Directors of enterprises and organizations are urged to get high-frequency electric tools, which will raise the technological level of the work and insure the safety of the labor force.

Equipment and tools are available in any quantity, and come with spare parts and technical instruction pamphlets. Apply at the Minsk office. --Advertisement

NEW CONVERTER TO BE USED WITH POWER TOOLS -- Moscow, Mekhanizatsiya Stroi-

The Khar'kov Elektroinstrument Plant of the Ministry of Constructionand Road-Machine Building has begun production of the new I-88 converter to be used with electric hand-power tools having high-frequency motors. The machine consists of a two-pole induction motor with a squirrel-cage rotor, and a six-pole induction generator with a phase rotor. Both rotors have a common shaft, mounted on ball bearings.

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Specifications

Type motor Current	AL-32/2, 17 kw 3-phase, alternating
Voltage Primary Secondary	220/380 36 plus 10 percent
Current frequency (cps) Primary Secondary	50 200
Rotor speed (rpm) Synchronous Under full load Required power (kw)	3,000 2,900 1.8
Power factor Of motor Of aggregate Efficiency coefficient of aggregate Power put out by aggregate (kva) Over-all dimensions (mm) Weight of aggregate (kg)	0.85 0.7 0.58 1.5 300 x 330 x 550 40

The Elektroinstrument Plant is now working with the Khar'kov Polytechnical Institute to develop a single-machine frequency converter, lighter, stronger, and more efficient than the present one.

NUT TIGHTENER ELECTRIC ALLY POWERED -- Moscow, Mekbanizatsiya Stroitel'stva, Mar 51

The Elektroinstrument Plant has begun series production of the new I-91 electric nut tightener. The machine consists essentially of a motor, reduction mechanism, and a striking pawl, which rotates the spindle attached to the tightener head.

Specifications

Current used	3-phase alternating
Type motor	Asynchronous, short- circuiting
Voltage	36, or, in special cases, 220
Frequency of current (cps)	200
Power of motor (w)	800
Synchronous rpm	4
Of motor	12,000
Of spindle	630
Frequency of striking pawl impulses	
(synchronous strikes/min)	1,260
Max diam of threads of parts tightened (mm)	18
Rated moment exerted on nut in 5 sec (kg-cm)	1,200
Over-all dimensions of machine (mm)	115 x 470 x 625
Weight (kg)	10
Time required to tighten one nut (sec)	5

SPRAY COMPRESSOR HAS STANDARD PARTS -- Moscow, Mekhanizatsiya Stroitel'stva, Jan 51

The Vil'nyus Painting-Apparatus Plant, in collaboration with the Pnevmoinstrument Plant imeni Kalinin of the Ministry of Construction- and Road-Machine Building, has begun production of a new portable paint-spraying aggregate, consisting of a compressor, oil filter, and spray gun.

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The compressor, designated the 0-21, is powered by an 0.8-kilowatt electric motor. This motor is made of parts which go into the manufacture of the I-20 electric saw, put out by the Krasniy Mayak Plant. The machine's single cylinder has the same diameter as the cylinders of the Moskva motorcycle engine and of the ZIS-150 and YaAZ-204 compressors, so that piston rings, wrist pins, pin screws, and rollers for connecting-rod bearings produced by the automobile and tractor industry, can be used in them. The intake and exhaust valves are of the plate type and have plates and springs of the same dimensions as those used in the ZIS-150 and YaAZ-200 compres-

Productivity of the compressor is 0.1 cubic meters per minute; the working are pressure is 3 atmospheres. The cylinder is 52 millimeters in diameter; the stroke of the piston is 30 millimeters. The crankshaft makes 2,700 revolutions per minute. The compressor weighs 16 kilograms, and measures 360 x 190 x 184 millimeters.

The spray gun is designated the 0-18, and may be carried in a special hand case with the oil filter. The compressor itself, equipped with a handle, is carried separately.

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